

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 18 MAR 2005

WIPO

PCT

PCT

To:
CHO, Hyeon Seog

3rd Floor, Yoonsung Blgd., 628-13, Yeoksam-dong,
Kangnam-ku Seoul 135-938, Republic of Korea

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year) 09 MARCH 2005 (09.03.2005)	
Applicant's or agent's file reference 2004-0067-KR		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/KR2004/003141	International filing date (day/month/year) 01 DECEMBER 2004 (01.12.2004)	Priority date(day/month/year) 01 DECEMBER 2003 (01.12.2003)	
International Patent Classification (IPC) or both national classification and IPC IPC7 H04B 1/40			
Applicant HANA MICRON CO., LTD. et al			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-479-7140

Authorized officer

KIM, Dong Sung

Telephone No. 82-42-481-5949



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003141

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- a sequence listing
 table(s) related to the sequence listing

b. format of material

- in written format
 in computer readable form

c. time of filing/furnishing

- contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/003141

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-22	YES
	Claims		NO
Inventive step (IS)	Claims	1-22	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-22	YES
	Claims		NO

2. Citations and explanations :

Reference is made to the following documents.

D1 : KR 2002-0012880 A(Jung Seok-Hong, Kim Si-Hwan) 20 February 2002

D2 : KR 307362 Y(Park Sang-Ho) 15 March 2003

1.Novelty and Inventive Step (PCT Article 33(2)-(3)):

Claims 1-22 of the present invention relate to a portable terminal having an extended screen converting dual displays into one extended display by having a sub-display panel which is foldable with one side of a folder equipped with a main display panel by a hinge and to method of controlling screen display thereof and to a control device thereof.

On the other hand, D1 relates to a foldaway portable flat display panel which is provided to realize one large screen by unfolding a sub display panel, thereby provides various information and one enlarged screen.

And D2 discloses a portable terminal to allow a user to use a large display by combining an sub-display with one side of a main display by a hinge.

But neither D1 nor D2 discloses technical components of display module for controlling the image of two panels able to functions independently when the sub-display arrangement is folded and functions as one extended screen when unfolded.

Therefore, the subject matter of claims 1-22 in the present invention fulfills the requirements of Article 33(2)-(3)PCT.

2. Industrial Applicability (PCT Article 33(4)) :

The subject matter of claims 1-22 fulfills the requirements of Article 33(4) PCT because it is industrially applicable.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/003141

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: